Nu-Metrics Traffic Analyzer Study

Computer Generated Summary Report
City: City of Fairfax

Street: 4008 Burke Station Rd.

A study of vehicle traffic was conducted with HI-STAR unit number 1039. The study was done in the North Bound lane at 4008 Burke Station Rd. using counter #2 Red as shown on attached drawing. The study began on 11/03/2003 at 12:00 PM and concluded on 11/07/2003 at 12:00 PM, lasting a total of 96 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 13,507 vehicles passed through the location with a peak volume of 468 on 11/06/2003 at 07:00 AM and a minimum volume of 2 on 11/05/2003 at 01:00 AM. The AADT Count for this study was 3,377.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1

0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	4
0	67	273	1874	5909	3842	835	161	

At least half of the vehicles were traveling in the 25 - 29 mph range or a lower speed. The average speed for all classified vehicles was 29 mph with 83.0 percent exceeding the posted speed of 25 mph. The HI-STAR found 8.45 percent of the total vehicles were traveling in excess of 35 mph. The mode speed for this traffic study was 25 mph and the 85th percentile was 33.89 mph.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2

0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
12718	250	82	14	5	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 12,968 which represents 99.20 percent of the total classified vehicles. The number of Small Trucks in the study was 82 which represents 0.60 percent of the total classified vehicles. The number of Trucks/Buses in the study was 14 wihch represents 0.10 percent of the total classified vehicles. The number of Tractor Trailers in the study was 5 which represents 0.00 percent of the total classified vehicles.

HEADWAY

During the peak time period, on 11/06/2003 at 07:00 AM the average headway between the vehicles was 7.68 seconds. The slowest traffic period was on 11/05/2003 at 01:00 AM. During this slowest period, the average headway was 1200.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 58 and 87 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.